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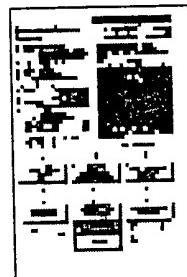
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Title: **JP11214021A2: SOLID ELECTROLYTE TYPE FUEL CELL
POWER GENERATING APPARATUS**

Country: JP Japan

Kind: A

Inventor(s): HAMADA YUKITAKA
ONDA KAZUO



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Issued/Filed Dates: Aug. 6, 1999 / Jan. 27, 1998

Application Number: JP1998000013677

IPC Class: H01M 8/04; H01M 8/00; H01M 8/12;

Priority Number(s): Jan. 27, 1998 JP1998199813677

Abstract:

Problem to be solved: To generate electric power while keeping a fuel cell in a suitable temperature by using pure hydrogen and pure oxygen as a fuel and an oxidizer, keeping their utilization factors high and without generating contaminants.

Solution: This power generating apparatus is provided with solid electrolyte type fuel cell 20 having an anode and a cathode, an anode gas line 22 that supplies an anode gas containing hydrogen and oxygen to the fuel cell 20, an anode recycle line 24 that cools the anode gas which passed through the fuel cell 20 and removes moisture to the anode gas line 22, a cathode gas line 26 that supplies a cathode gas containing oxygen to the fuel cell 20, and an cathode recycling 28 that cools the cathode gas which passed through the fuel cell 20 and removes moisture to the cathode gas line 26. The temperature of the fuel cell 20 is controlled by cooling the gas in the recycle lines 26, 28.

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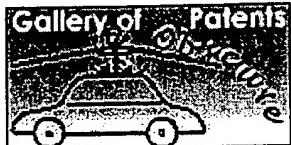
Other Abstract Info:

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140930C DERKADO U 1999-011001 DERKADO
C1999-511061

Foreign References:

No patents reference this one



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PATENT ABSTRACTS OF JAPAN

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states:(71) Applicant: ISHIKAWAJIMA HAR
IND CO LTD
ONDA KAZUO(72) Inventor: HAMADA YUKITAKA
ONDA KAZUO

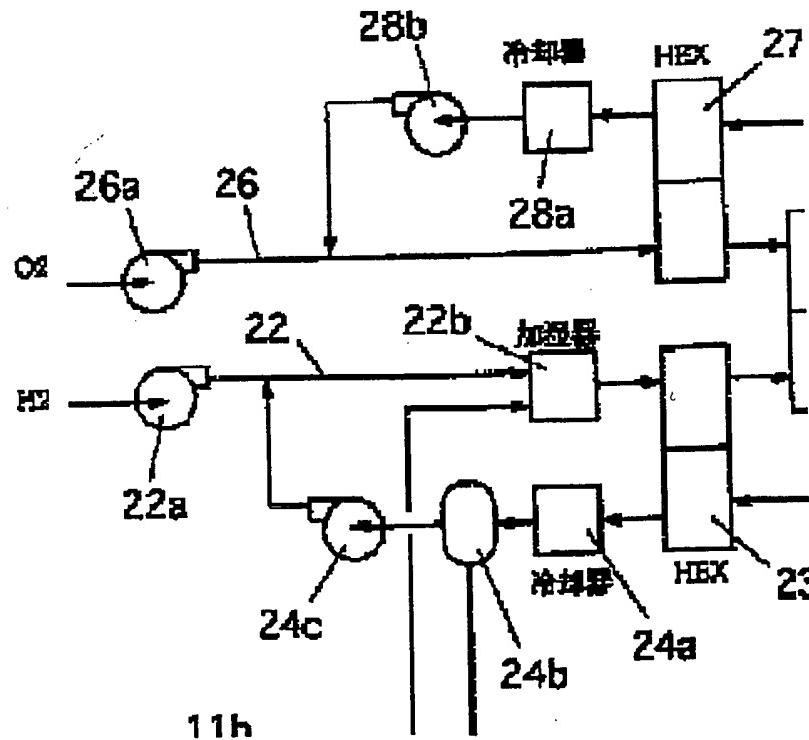
(74) Representative:

(54) SOLID ELECTROLYTE
TYPE FUEL CELL POWER
GENERATING APPARATUS

(57) Abstract:

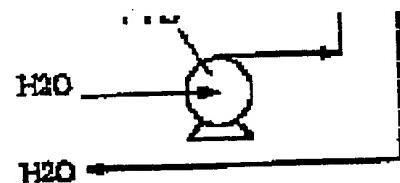
PROBLEM TO BE SOLVED: To generate electric power while keeping a fuel cell in a suitable temperature by using pure hydrogen and pure oxygen as a fuel and an oxidizer, keeping their utilization factors high and without generating contaminants.

SOLUTION: This power generating apparatus is provided with solid electrolyte type fuel cell 20 having an anode and a cathode, an anode gas line 22 that supplies an anode gas containing hydrogen and oxygen to the fuel cell 20, an anode recycle line 24 that cools the anode gas which passed through the fuel cell 20 and removes moisture to the anode gas line 22, a cathode gas line 26 that supplies a cathode gas containing oxygen to the fuel cell 20, and an



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cathode recycling 28 that cools the cathode gas which passed through the fuel cell 20 and removes moisture to the cathode gas line 26. The temperature of the fuel cell 20 is controlled by cooling the gas in the recycle lines 26, 28.



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